

## AMENDMENTS TO THE CLAIMS

1. (currently amended) A process for preparing a supported cocatalyst for olefin polymerization, which comprises first reacting
- A) a-support bearing functional groups, with
- B) triethylaluminum, thereby producing a reaction product; and subsequently reacting the reaction product with
- C) a compound of the formula (I),



where

A is an atom of group 13 or 15 of the Periodic Table;

$R^1$  are identical or different and are each, independently of one another, hydrogen, halogen,  $C_1$ - $C_{20}$ -alkyl,  $C_1$ - $C_{20}$ -haloalkyl,  $C_1$ - $C_{10}$ -alkoxy,  $C_6$ - $C_{20}$ -aryl,  $C_6$ - $C_{20}$ -haloaryl,  $C_6$ - $C_{20}$ -aryloxy,  $C_7$ - $C_{40}$ -arylalkyl,  $C_7$ - $C_{40}$ -haloarylalkyl,  $C_7$ - $C_{40}$ -alkylaryl,  $C_7$ - $C_{40}$ -haloalkylaryl or an  $OSiR_3^2$  group, where

$R^2$  are identical or different and are each hydrogen, halogen,  $C_1$ - $C_{20}$ -alkyl,  $C_1$ - $C_{20}$ -haloalkyl,  $C_1$ - $C_{10}$ -alkoxy,  $C_6$ - $C_{20}$ -aryl,  $C_6$ - $C_{20}$ -haloaryl,  $C_6$ - $C_{20}$ -aryloxy,  $C_7$ - $C_{40}$ -arylalkyl,  $C_7$ - $C_{40}$ -haloarylalkyl,  $C_7$ - $C_{40}$ -alkylaryl or  $C_7$ - $C_{40}$ -haloalkylaryl;

y is 1 or 2; and

x is 3 minus y.

2. (canceled).

3. (currently amended) ~~A~~The process as claimed in claim 1 ~~or~~ 2, wherein A in formula (I) is boron.
4. (currently amended) ~~A~~The process as claimed in claim 3, wherein R<sup>1</sup> in formula (I) is C<sub>6</sub>-C<sub>10</sub>-haloaryl, C<sub>7</sub>-C<sub>20</sub>-alkylaryl or C<sub>7</sub>-C<sub>20</sub>-haloalkylaryl.
5. (currently amended) A supported cocatalyst ~~obtainable~~obtained by a process ~~as claimed in any of claims 1 to 4~~comprising

first reacting

- A) support bearing functional groups, with
- B) triethylaluminum, thereby producing a reaction product and subsequently reacting the reaction product with
- C) a compound of the formula (I),



where

A is an atom of group 13 or 15 of the Periodic Table;

R<sup>1</sup> are identical or different and are each, independently of one another, hydrogen, halogen, C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>1</sub>-C<sub>20</sub>-haloalkyl, C<sub>1</sub>-C<sub>10</sub>-alkoxy, C<sub>6</sub>-C<sub>20</sub>-aryl, C<sub>6</sub>-C<sub>20</sub>-haloaryl, C<sub>6</sub>-C<sub>20</sub>-aryloxy, C<sub>7</sub>-C<sub>40</sub>-arylalkyl, C<sub>7</sub>-C<sub>40</sub>-haloarylalkyl, C<sub>7</sub>-C<sub>40</sub>-alkylaryl, C<sub>7</sub>-C<sub>40</sub>-haloalkylaryl or an OSiR<sub>3</sub><sup>2</sup> group, where

R<sup>2</sup> are identical or different and are each hydrogen, halogen, C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>1</sub>-C<sub>20</sub>-haloalkyl, C<sub>1</sub>-C<sub>10</sub>-alkoxy, C<sub>6</sub>-C<sub>20</sub>-aryl, C<sub>6</sub>-C<sub>20</sub>-haloaryl, C<sub>6</sub>-C<sub>20</sub>-aryloxy, C<sub>7</sub>-C<sub>40</sub>-arylalkyl, C<sub>7</sub>-C<sub>40</sub>-haloarylalkyl, C<sub>7</sub>-C<sub>40</sub>-alkylaryl or C<sub>7</sub>-C<sub>40</sub>-haloalkylaryl;

y is 1 or 2; and

x is 3 minus y.

6. (currently amended) ~~The use of a supported cocatalyst prepared as claimed in any of claims 1 to 4 for preparing a catalyst system for the polymerization of olefins~~A process comprising preparing a catalyst system for the polymerization of olefins with a supported cocatalyst, the supported cocatalyst being prepared by  
first reacting

- A) support bearing functional groups, with  
B) triethylaluminum, thereby producing a reaction product and subsequently reacting the reaction product with  
C) a compound of the formula (I),



where

A is an atom of group 13 or 15 of the Periodic Table;

R<sup>1</sup> are identical or different and are each, independently of one another, hydrogen, halogen, C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>1</sub>-C<sub>20</sub>-haloalkyl, C<sub>1</sub>-C<sub>10</sub>-alkoxy, C<sub>6</sub>-C<sub>20</sub>-aryl, C<sub>6</sub>-C<sub>20</sub>-haloaryl, C<sub>6</sub>-C<sub>20</sub>-aryloxy, C<sub>7</sub>-C<sub>40</sub>-arylalkyl, C<sub>7</sub>-C<sub>40</sub>-haloarylalkyl, C<sub>7</sub>-C<sub>40</sub>-alkylaryl, C<sub>7</sub>-C<sub>40</sub>-haloalkylaryl or an OSiR<sub>3</sub><sup>2</sup> group, where

R<sup>2</sup> are identical or different and are each hydrogen, halogen, C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>1</sub>-C<sub>20</sub>-haloalkyl, C<sub>1</sub>-C<sub>10</sub>-alkoxy, C<sub>6</sub>-C<sub>20</sub>-aryl, C<sub>6</sub>-C<sub>20</sub>-haloaryl, C<sub>6</sub>-C<sub>20</sub>-aryloxy, C<sub>7</sub>-C<sub>40</sub>-arylalkyl, C<sub>7</sub>-C<sub>40</sub>-haloarylalkyl, C<sub>7</sub>-C<sub>40</sub>-alkylaryl or C<sub>7</sub>-C<sub>40</sub>-haloalkylaryl;

y is 1 or 2; and

x is 3 minus y.

7. (currently amended) A catalyst system for the polymerization of olefins,  
~~obtainable~~obtained by bringing at least one supported cocatalyst ~~as claimed in~~  
~~claim 5~~obtained by a process comprising

first reacting

- A) support bearing functional groups, with  
 B) triethylaluminum, thereby producing a reaction product and subsequently reacting  
the reaction product with  
 C) a compound of the formula (I),



where

A is an atom of group 13 or 15 of the Periodic Table;

R<sup>1</sup> are identical or different and are each, independently of one another, hydrogen,  
halogen, C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>1</sub>-C<sub>20</sub>-haloalkyl, C<sub>1</sub>-C<sub>10</sub>-alkoxy, C<sub>6</sub>-C<sub>20</sub>-aryl,  
C<sub>6</sub>-C<sub>20</sub>-haloaryl, C<sub>6</sub>-C<sub>20</sub>-aryloxy, C<sub>7</sub>-C<sub>40</sub>-arylalkyl, C<sub>7</sub>-C<sub>40</sub>-haloarylalkyl,  
C<sub>7</sub>-C<sub>40</sub>-alkylaryl, C<sub>7</sub>-C<sub>40</sub>-haloalkylaryl or an OSiR<sub>3</sub><sup>2</sup> group, where

R<sup>2</sup> are identical or different and are each hydrogen, halogen, C<sub>1</sub>-C<sub>20</sub>-alkyl,  
C<sub>1</sub>-C<sub>20</sub>-haloalkyl, C<sub>1</sub>-C<sub>10</sub>-alkoxy, C<sub>6</sub>-C<sub>20</sub>-aryl, C<sub>6</sub>-C<sub>20</sub>-haloaryl, C<sub>6</sub>-C<sub>20</sub>-aryloxy,  
C<sub>7</sub>-C<sub>40</sub>-arylalkyl, C<sub>7</sub>-C<sub>40</sub>-haloarylalkyl, C<sub>7</sub>-C<sub>40</sub>-alkylaryl or  
C<sub>7</sub>-C<sub>40</sub>-haloalkylaryl;

y is 1 or 2; and

x is 3 minus y

into contact with

- D) at least one organic transition metal compound.
8. (currently amended) ~~A~~The catalyst system for the polymerization of olefins as claimed in claim 7, wherein

E) at least one organometallic compound

is additionally added in its preparation.

9. (currently amended) ~~A~~The catalyst system for the polymerization of olefins as claimed in claim 8 which is prepared by:

firstly preparing a catalyst solid by bringing the at least one supported cocatalyst as ~~claimed in claim 5~~ into contact with the at least one organic transition metal compound D), then

bringing ~~this~~the catalyst solid into contact with the at least one organometallic compound E) in a second step, thereby forming a mixture, and then using ~~this~~the mixture without further work-up for the polymerization.

10. (currently amended) ~~A process for the polymerization of olefins using a catalyst system as claimed in any of claims 7 to 9 comprising polymerizing olefins with a catalyst system obtained by bringing at least one supported cocatalyst obtained by a process comprising~~  
first reacting

A) support bearing functional groups, with

B) triethylaluminum, thereby producing a reaction product and subsequently reacting the reaction product with

C) a compound of the formula (I),



where

A is an atom of group 13 or 15 of the Periodic Table;

R<sup>1</sup> are identical or different and are each, independently of one another, hydrogen, halogen, C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>1</sub>-C<sub>20</sub>-haloalkyl, C<sub>1</sub>-C<sub>10</sub>-alkoxy, C<sub>6</sub>-C<sub>20</sub>-aryl, C<sub>6</sub>-C<sub>20</sub>-haloaryl, C<sub>6</sub>-C<sub>20</sub>-aryloxy, C<sub>7</sub>-C<sub>40</sub>-arylalkyl, C<sub>7</sub>-C<sub>40</sub>-haloarylalkyl, C<sub>7</sub>-C<sub>40</sub>-alkylaryl, C<sub>7</sub>-C<sub>40</sub>-haloalkylaryl or an OSiR<sub>3</sub><sup>2</sup> group, where

R<sup>2</sup> are identical or different and are each hydrogen, halogen, C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>1</sub>-C<sub>20</sub>-haloalkyl, C<sub>1</sub>-C<sub>10</sub>-alkoxy, C<sub>6</sub>-C<sub>20</sub>-aryl, C<sub>6</sub>-C<sub>20</sub>-haloaryl, C<sub>6</sub>-C<sub>20</sub>-aryloxy, C<sub>7</sub>-C<sub>40</sub>-arylalkyl, C<sub>7</sub>-C<sub>40</sub>-haloarylalkyl, C<sub>7</sub>-C<sub>40</sub>-alkylaryl or C<sub>7</sub>-C<sub>40</sub>-haloalkylaryl;

y is 1 or 2; and

x is 3 minus y

into contact with

D) at least one organic transition metal compound.